

# Comparisons of Job Characteristics

**Focus Occupation:** [Surveyors \(17-1022\)](#)

**Associated Occupation:** [Surveying and Mapping Technicians \(17-3031\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

## Knowledge

Similarity of Focus Occupation to Associated Occupation: 96

**Focus Occupation:** Surveyors (17-1022)

**Associated Occupation:** Surveying and Mapping Technicians (17-3031)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Mathematics	9.2	15.0	20.6	>> Current knowledge level is likely more than sufficient
Geography	3.9	14.5	16.1	> Current knowledge level is likely sufficient
Computers and Electronics	8.4	13.4	15.3	> Current knowledge level is likely sufficient
Design	5.2	11.8	12.6	0 Current knowledge level may be sufficient
Engineering and Technology	5.7	10.3	15.1	>> Current knowledge level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Skills

Similarity of Focus Occupation to Associated Occupation: 94

**Focus Occupation:** Surveyors (17-1022)

**Associated Occupation:** Surveying and Mapping Technicians (17-3031)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Mathematics	6.2	11.6	14.1	> Skill level is likely sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Abilities

Similarity of Focus Occupation to Associated Occupation: 93

**Focus Occupation:** Surveyors (17-1022)

**Associated Occupation:** Surveying and Mapping Technicians (17-3031)

Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Near Vision	11.1	13.2	12.2	0	Current ability level may be sufficient
Information Ordering	9.9	11.5	12.0	0	Current ability level may be sufficient
Mathematical Reasoning	6.3	11.2	14.7	>>	Current ability level is likely more than sufficient
Finger Dexterity	7.6	10.2	8.0	<	Some improvement in abilities may be required
Far Vision	7.8	10.0	10.8	0	Current ability level may be sufficient
Flexibility of Closure	7.8	9.8	12.1	>	Current ability level is likely sufficient
Number Facility	6.3	9.2	13.3	>>	Current ability level is likely more than sufficient
Visual Color Discrimination	6.4	8.6	6.3	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Activities that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 100

**Focus Occupation: Surveyors (17-1022)**  
**Associated Occupation: Surveying and Mapping Technicians (17-3031)**

Work Activities	Exclusivity of Activity
Analyze spatial data	87
Analyze technical data, designs, or preliminary specifications	47
Collect scientific or technical data	30
Communicate technical information	4
Conduct geological surveys	89
Conduct land surveys	81
Conduct plant location surveys	87
Conduct topographical surveys	89
Draw maps or charts	69
Interpret aerial photographs	69
Maintain records, reports, or files	5
Obtain land survey data using surveying instruments	87
Operate land or site surveying instruments	80
Prepare safety reports	60
Read maps	42
Read technical drawings	7
Research property records	77
Use computer aided drafting or design software for design, drafting, modeling, or other engineering tasks	58
Use drafting or mechanical drawing techniques	50
Use oral or written communication techniques	1

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Tools and Technologies that Both Occupations Have in Common

Similarity of Focus  
Occupation to Associated  
Occupation: 93

**Focus Occupation: Surveyors (17-1022)**

**Associated Occupation: Surveying and Mapping Technicians (17-3031)**

Tools and Technologies	Exclusivity
Audio and visual equipment	4
Business function specific software	1
Computer data input devices	2
Computers	1
Content authoring and editing software	1
Data management and query software	1
Furniture	80
Garden tools	12
Geophysical and geotechnical instruments	23
Indicating and recording instruments	2
Industry specific software	1
Information exchange software	1
Land surveying instruments	19
Length and thickness and distance measuring instruments	2
Lenses and prisms	56
Measuring and layout tools	3
Meteorological instruments	16
Network applications software	1
Personal communication devices	2
Rock and strata measuring equipment	47
Sound generating and measuring equipment	19
Tool attachments and accessories	12

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.